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Bao 37-49-1; CL-2449

PATENT

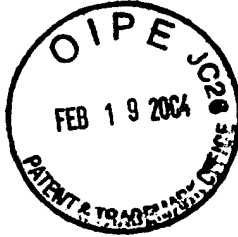
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Bao et al.

Serial No.: 10/671,303

Filed: September 24, 2003

For: SEMICONDUCTOR DEVICES HAVING
REGIONS OF INDUCED HIGH AND LOW
CONDUCTIVITY, AND METHODS OF
MAKING THE SAME



I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date set forth below:

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Examiner: Not Yet Assigned

Durham, North Carolina
February 17, 2004

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INFORMATION DISCLOSURE STATEMENT UNDER § 197(a)

Sir:

This Information Disclosure Statement is being filed before a first Official Action has been mailed in this case.

Pursuant to 37 C.F.R. 1.56, 1.97 and 1.98, applicant's attorney wishes to bring to the attention of the Patent and Trademark Office the following items listed on the accompanying Forms PTO/SB/08A and PTO/SB/08B.

ITEMS

	<u>Document No.</u>	<u>Publication Date</u>	<u>Patentee/Applicant</u>
1.	U.S. Patent No. 5,192,580	03/09/1993	Blanchet-Fincher
2.	U.S. Patent No. 5,288,528	02/22/1994	Blanchet-Fincher
3.	U.S. Patent No. 5,347,144	09/13/1994	Garnier et al.
4.	U.S. Patent No. 5,523,192	06/04/1996	Blanchet-Fincher
5.	U.S. Patent No. 5,563,019	10/08/1996	Blanchet-Fincher
6.	U.S. Patent No. 5,625,199	04/29/1997	Baumbach et al.
7.	U.S. Patent No. 5,766,819	06/16/1998	Blanchet-Fincher
8.	U.S. Patent No. 5,840,463	11/24/1998	Blanchet-Fincher
9.	U.S. Patent No. 5,981,970	11/09/1999	Dimitrakopoulos et al.
10.	U.S. Patent No. 6,051,318	04/18/2000	Kwon
11.	U.S. Patent No. 6,143,451	11/07/2000	Blanchet-Fincher
12.	U.S. Patent No. 6,146,792	11/14/2000	Blanchet-Fincher et al.
13.	U.S. Patent No. 6,174,651	01/16/2001	Thakur
14.	U.S. Patent No. 6,265,243	07/24/2001	Katz et al.
15.	U.S. Patent No. 6,352,811	03/05/2002	Patel et al.
16.	U.S. Patent No. 6,352,812	03/05/2002	Shimazu et al.
17.	U.S. Patent No. 6,403,397	06/11/2002	Katz
18.	U.S. Patent No. 6,551,717	04/22/2003	Katz et al.
19.	U.S. Publication No. 2002/0149315 A1	10/17/2002	Blanchet-Fincher
20.	U.S. Application No. 10/256,885	09/27/2002	Bao et al.
21.	U.S. Application No. 10/669,780	09/24/2003	Bao

22.	U.S. Application No. 60/505,533	09/24/2003	Meth
23.	U.S. Application No. 60/505,880	09/24/2003	Meth et al.
24.	U.S. Application No. 10/701,183	11/04/2003	Akkerman et al.
25.	U.S. Application No. 10/722,613	11/26/2003	Aizenberg et al.
26.	PCT Publication No. WO 01/87634 A2	11/22/2001	E.I. du Pont de Nemours and Company
27.	PCT Publication No. WO 02/08801 A1	01/31/2002	E.I. du Pont de Nemours and Company
28.	PCT Publication No. WO 02/092352 A1	11/21/2002	E.I. du Pont de Nemours and Company

Other Publications

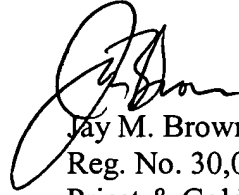
29. AFZALI ET AL., High-Performance, Solution-Processed Organic Thin Film Transistors from a Novel Pentacene Precursor, J. Am. Chem. Soc., 2002, Page(s) 8812-8813, Volume 124
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40. ECHAVARREN ET AL., *J. Am. Chem. Soc.*, 1987, Page(s) 5478-5486, Volume 109
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44. HAN ET AL., Face-Selective Nucleation of Calcite on Self-Assembled Monolayers of Alkanethiols: Effect of the Parity of the Alkyl Chain, *Angew. Chem. Int. Ed.*, 2003, Page(s) 3668-3670, Volume 42
45. HONG ET AL., Thiophene-Phenylene and Thiophene-Thiazole Oligomeric Semiconductors with High Field-Effect Transistor On/Off Ratios, *Chem. Mater.*, 2001, Page(s) 4686-4691, Volume 13, Number 12
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47. KATZ ET AL., Synthesis, Solubility, and Field-Effect Mobility of Elongated and Oxa-substituted a,w-Dialkyl Thiophene Oligomers: Extension of 'Polar Intermediate' Synthetic Strategy and Solution Deposition on Transistor Substrates, *Chem. Mater.*, 1998, Page(s) 633-638, Volume 10, Number 2
48. KLAUK ET AL., High-Mobility Polymer Gate Dielectric Pentacene Thin Film Transistors, *Journal of Applied Physics*, November 1, 2002, Page(s) 5259-5263, Volume 92, Number 9

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53. MUSHRUSH ET AL., Easily Processable Phenylene-Thiophene-Based Organic Field-Effect Transistors and Solution-Fabricated Nonvolatile Transistor Memory Elements, J. Am. Chem. Soc., 2003, Page(s) 9414-9423, Volume 125, Number 31
54. SEO ET AL., Interpretation of the Mass Change Behavior in the Binary Monolayer of Hydroquinone-tethered Alkylthiol and Aminoalkylthiol, Bull. Korean Chem. Soc., 2002, Page(s) 1671-1673, Volume 23, Number 11
55. STABEL ET AL., Scanning Tunneling Microscopy of Alkylated Oligothiophenes at Interfaces with Graphite, Synthetic Metals, 1994, Page(s) 47-53, Volume 67
56. TANIMOTO ET AL., Binary Phase Chlorination of Aromatic Hydrocarbons with Solid Copper(II) Chloride: Reaction Mechanism, Bull. Chem. Soc. Japan, 1979, Page(s) 3586-3591, Volume 52, Number 12
57. XIA ET AL., Soft Lithography, Angew. Chem. Int. Ed., 1998, Page(s) 550-575, Volume 37

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made nor shall it be construed as an admission that the information cited is considered to be material to patentability, nor shall it be construed that no other material information exists.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Jay M. Brown', with a large, stylized initial 'J'.

Jay M. Brown

Reg. No. 30,033

Priest & Goldstein, PLLC

5015 Southpark Drive, Suite 230

Durham, NC 27713-7736

(919) 806-1600



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				Application Number	10/671,303
				Filing Date	09/24/2003
				First Named Inventor	Bao et al.
				Art Unit	2812
				Examiner Name	
				Attorney Docket Number	100.2495
Sheet	2	of	5		

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				Application Number	10/671,303
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				First Named Inventor	Bao et al.
				Art Unit	2812
				Examiner Name	
Sheet	3	of	5	Attorney Docket Number	100.2495

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	29	AFZALI ET AL., High-Performance, Solution-Processed Organic Thin Film Transistors from a Novel Pentacene Precursor, J. Am. Chem. Soc., 2002, Page(s) 8812-8813, Volume 124	
	30	AFZALI ET AL., Synthesis and Application of Pentacene Precursor in OTFT, Publisher: IBM Research Division, Published in: Yorktown Heights, NY	
	31	AIZENBERG ET AL., Control of Crystal Nucleation by Patterned Self-Assembled Monolayers, Nature, April 8, 1999, Page(s) 495-498, Volume 398	
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